

# ERRATA

## 2011 ANNUAL AIR QUALITY REPORT, APPENDIX B-1

### April 21, 2014

A calculation error was found in the 2011 Annual Air Quality Report (AAQR), Appendix B-1 for the carbonyls and volatile organic carbons. The following tables contain the corrected data and should replace those from the original 2011 AAQR, Appendix B-1. Questions should be directed to Cindy Hodges for more information (email: [hodgesc@michigan.gov](mailto:hodgesc@michigan.gov); phone: 517-284-6748).

Dearborn (261630033) Concentrations in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ )								
Chemical Name	Num Obs	Obs > MDL	Average (ND=0)	Average (ND=MDL/2)	MDL	Max 1	Max 2	Max 3
1,1,1-Trichloroethane	69	52	0.038	0.0545	0.124	0.0818	0.0709	0.0655
1,2,4-Trichlorobenzene	69	1	0.00214	0.157	0.313	0.148	0	0
1,2,4-Trimethylbenzene	69	68	0.947	0.954	0.156	3.54	3.24	2.88
1,2-Dichloroethane	69	12	0.0143	0.033	0.0438	0.142	0.101	0.0809
1,3,5-Trimethylbenzene	69	67	0.321	0.33	0.142	1.31	1.17	1.01
1,3-Butadiene	69	64	0.0958	0.0977	0.02	0.35	0.226	0.223
1,4-Dichlorobenzene	69	17	0.0169	0.105	0.228	0.138	0.114	0.0962
2,2,4-Trimethylpentane	2	2	0.595	0.595	0.155	0.61	0.58	
2-Chloro-1,3-Butadiene	69	1	0.000839	0.0165	0.0318	0.0579	0	0
Acenaphthene	66	66	0.0132	0.0132	4.34E-05	0.111	0.0842	0.0575
Acenaphthylene	66	48	0.000642	0.000648	3.83E-05	0.00282	0.00268	0.00259
Acetaldehyde	67	67	1.73	1.73	0.00901	3.28	2.97	2.9
Acetone	67	67	2.29	2.29	0.0124	5.77	4.94	4.44
Acetonitrile	69	68	0.883	0.885	0.0506	24	0.924	0.917
Acetylene	67	67	1.04	1.04	0.017	2.78	2.11	1.94
Acrylonitrile	69	1	0.000849	0.0213	0.0413	0.0586	0	0
Anthracene	66	63	0.00091	0.000912	4.94E-05	0.00907	0.00704	0.00413
Arsenic (PM-10)	120	120	0.00127	0.00127	3.90E-05	0.00405	0.00379	0.00339
Arsenic (TSP)	116	116	0.00164	0.00164	3.12E-05	0.0154	0.00641	0.00389
Barium (PM-10)	120	120	0.014	0.014	0.0016	0.0342	0.027	0.0268
Barium (TSP)	116	116	0.0484	0.0484	0.00128	0.164	0.143	0.141
Benzaldehyde	67	67	0.106	0.106	0.00868	0.226	0.226	0.204
Benzene	69	69	0.872	0.872	0.104	2.05	1.8	1.66
Benzo(a)anthracene	66	66	0.000212	0.000212	7.13E-05	0.0024	0.00128	0.000767
Benzo(a)pyrene	66	64	0.000178	0.000179	6.99E-05	0.00199	0.00111	0.000569
Benzo(b)fluoranthene	66	66	0.000452	0.000452	3.70E-05	0.0028	0.00224	0.00139
Benzo(ghi)perylene	66	66	0.00021	0.00021	6.13E-05	0.00155	0.000815	0.000582
Benzo(k)fluoranthene	66	63	0.000126	0.000127	5.06E-05	0.000861	0.000721	0.000366

Dearborn (261630033) Concentrations in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ )								
Chemical Name	Num Obs	Obs > MDL	Average (ND=0)	Average (ND=MDL/2)	MDL	Max 1	Max 2	Max 3
Beryllium (PM-10)	120	114	2.19E-05	0.000022	1.42E-05	0.000129	0.000116	9.14E-05
Beryllium (TSP)	116	115	6.94E-05	6.94E-05	1.13E-05	0.000325	0.000309	0.000255
Bromomethane (Methyl Bromide)	69	28	0.0176	0.0327	0.0443	0.0816	0.0583	0.0544
Cadmium (PM-10)	120	119	0.000381	0.000381	2.84E-05	0.007	0.0013	0.00126
Cadmium (TSP)	116	116	0.000389	0.000389	2.27E-05	0.00149	0.00142	0.00124
Carbon Disulfide	67	66	0.149	0.15	0.103	0.399	0.389	0.389
Carbon Tetrachloride	69	68	0.64	0.642	0.154	0.925	0.868	0.849
Chlorobenzene	69	1	0.00159	0.0548	0.108	0.11	0	0
Chloroethane	69	11	0.00849	0.0213	0.0292	0.0897	0.0792	0.0792
Chloroform	69	69	0.789	0.789	0.0505	2.24	2.18	2.08
Chloromethane	69	69	1.4	1.4	0.0296	2.3	1.9	1.9
Chromium (PM-10)	120	120	0.0028	0.0028	0.00027	0.00834	0.008	0.00559
Chromium (TSP)	116	116	0.00499	0.00499	0.000215	0.0161	0.0143	0.0136
Chromium VI (TSP)	67	66	4.58E-05	4.59E-05	4.28E-06	0.0002	0.000167	0.000126
Chrysene	66	66	0.000471	0.000471	3.31E-05	0.00304	0.00196	0.00163
Cobalt (PM-10)	120	120	0.000216	0.000216	1.42E-05	0.000695	0.000595	0.000542
Cobalt (TSP)	116	116	0.000216	0.000216	1.13E-05	0.000764	0.000751	0.000508
Copper (PM-10)	120	120	0.0406	0.0406	0.000841	0.101	0.101	0.0999
Copper (TSP)	116	116	0.14	0.14	0.000672	0.479	0.404	0.372
Dibenzo(ah)anthracene	66	41	2.96E-05	4.18E-05	6.29E-05	0.000276	0.00023	0.000128
Dibromochloromethane	69	1	0.000741	0.098	0.197	0.0511	0	0
Dichlorodifluoromethane	69	69	2.78	2.78	0.0612	3.59	3.49	3.4
Ethylbenzene	69	68	0.601	0.606	0.0846	3.34	1.91	1.62
Fluoranthene	66	66	0.00534	0.00534	3.23E-05	0.0395	0.0293	0.0216
Fluorene	66	66	0.0111	0.0111	4.46E-05	0.0705	0.0692	0.0556
Formaldehyde	67	67	2.67	2.67	0.00976	6.98	6.74	6.42
Halocarbon 113	2	1	0.325	0.625	0.775	0.65	0	
Halocarbon 114	69	66	0.116	0.124	0.0759	0.154	0.154	0.147
Hexachloro-1,3-Butadiene	69	1	0.00401	0.227	0.453	0.277	0	0
Hexanaldehyde	65	64	0.107	0.107	0.00819	0.25	0.229	0.225
Indeno(123-cd)pyrene	66	65	0.000201	0.000202	5.94E-05	0.00127	0.000831	0.000569
Iron (PM-10)	120	120	0.529	0.529		2.21	2.07	1.85
Iron (TSP)	116	116	1.1	1.1	1.19E-05	4.84	4.59	3.78
Lead (TSP)	119	119	0.0112	0.0112		0.137	0.129	0.0569
Lead (PM-10)	116	116	0.0126	0.0126		0.12	0.111	0.0566
m/p -Xylene	69	69	1.75	1.75	0.167	11	6.12	5.04
Manganese (PM-10)	120	120	0.0403	0.0403	0.000298	0.746	0.357	0.179
Manganese (TSP)	116	116	0.0916	0.0916	0.000238	0.694	0.52	0.349

Dearborn (261630033) Concentrations in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ )								
Chemical Name	Num Obs	Obs > MDL	Average (ND=0)	Average (ND=MDL/2)	MDL	Max 1	Max 2	Max 3
Methyl Ethyl Ketone	69	67	0.907	0.916	0.468	2.4	2.37	2.29
Methyl Isobutyl Ketone	69	67	0.304	0.314	0.109	0.848	0.721	0.705
Methyl Methacrylate	67	2	0.0011	0.0448	0.0901	0.045	0.0287	0
Methylene Chloride	69	67	2.01	2.04	0.0925	16.8	12.1	7.95
Molybdenum (PM-10)	120	120	0.000662	0.000662	4.97E-05	0.00224	0.00219	0.00202
Molybdenum (TSP)	116	116	0.00087	0.00087	3.97E-05	0.00256	0.00249	0.00247
Naphthalene	66	66	0.143	0.143	0.000124	0.473	0.408	0.357
n-Hexane	2	2	1.35	1.35	0.225	1.6	1.1	
Nickel (PM-10)	120	120	0.00138	0.00138	0.00016	0.00961	0.00468	0.00403
Nickel (TSP)	116	116	0.00211	0.00211	0.000128	0.00722	0.00587	0.00496
n-Octane	67	66	0.171	0.171	0.0701	0.467	0.416	0.355
o-xylene	69	68	0.507	0.511	0.0891	2.48	1.33	1.19
Phenanthrene	66	66	0.0213	0.0213	3.26E-05	0.169	0.139	0.0942
Propionaldehyde	67	67	0.312	0.312	0.00475	0.613	0.582	0.573
Propylene	67	67	0.771	0.771	0.0671	1.54	1.38	1.28
Pyrene	66	66	0.00288	0.00288	2.78E-05	0.019	0.0131	0.0102
Styrene	69	65	0.127	0.136	0.106	0.464	0.307	0.302
Tetrachloroethene	69	64	0.248	0.253	0.134	3.6	1.5	0.502
Tolualdehydes	60	60	0.119	0.119	0.0144	0.344	0.3	0.236
Toluene	69	69	2.36	2.36	0.0674	28.1	19.7	5.46
Trichloroethene	69	6	0.0063	0.0715	0.142	0.118	0.0913	0.0591
Trichlorofluoromethane	69	69	1.65	1.65	0.063	2.97	2.5	2.35
Valeraldehyde	67	67	0.086	0.086	0.00705	0.201	0.183	0.18
Vanadium (PM-10)	120	120	0.0015	0.0015	4.97E-05	0.00906	0.00865	0.00459
Vanadium (TSP)	116	116	0.00312	0.00312	3.97E-05	0.0145	0.0136	0.0101
Vinyl Chloride	69	7	0.00211	0.0142	0.0262	0.0409	0.0281	0.0204
Zinc (PM-10)	120	120	0.0751	0.0751	0.001	0.585	0.582	0.324
Zinc (TSP)	116	116	0.122	0.122	0.000799	0.664	0.623	0.49

Detroit, Fort Street (N. Delray-SWHS) (261630015) Concentrations in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ )								
Chemical Name	Num Obs	Obs > MDL	Average (ND=0)	Average (ND=MDL/2)	MDL	Max 1	Max 2	Max 3
1,2,4-Trimethylbenzene	27	10	0.514	0.721	0.654	3.1	2.2	1.9
1,3,5-Trimethylbenzene	27	3	0.0967	0.378	0.634	1	0.86	0.75
1,4-Dichlorobenzene	27	1	0.0256	0.351	0.676	0.69	0	0
2,2,4-Trimethylpentane	27	7	0.161	0.311	0.404	1.2	0.76	0.6
Acetaldehyde	30	30	1.71	1.71	0.0101	6.69	2.85	2.61
Acetone	30	30	2.68	2.68	0.017	8.19	4.42	3.99
Arsenic (TSP)	60	60	0.00141	0.00141	3.11E-05	0.00396	0.0033	0.00298

Detroit, Fort Street (N. Delray-SWHS) (261630015) Concentrations in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ )								
Chemical Name	Num Obs	Obs > MDL	Average (ND=0)	Average (ND=MDL/2)	MDL	Max 1	Max 2	Max 3
Benzaldehyde	30	28	0.122	0.122	0.00959	0.512	0.282	0.23
Benzene	27	27	0.881	0.881	0.216	1.7	1.2	1.2
Cadmium (TSP)	60	60	0.000317	0.000317	2.26E-05	0.0013	0.00102	0.000936
Carbon Tetrachloride	27	2	0.0496	0.35	0.648	0.68	0.66	0
Chloroform	27	21	0.631	0.689	0.512	1.6	1.5	1.2
Chloromethane	27	27	1.22	1.22	0.597	2	2	1.9
Dichlorodifluoromethane	27	27	2.64	2.64	0.634	3.3	3.2	3.2
Ethylbenzene	27	4	0.156	0.459	0.712	1.4	1.1	0.92
Formaldehyde	30	30	2.81	2.81	0.0108	8.34	6.14	5.07
Halocarbon 113	27	14	0.367	0.518	0.626	0.8	0.75	0.74
Hexanaldehyde	30	28	0.175	0.177	0.0103	1.53	0.504	0.283
m/p -Xylene	27	19	1.26	1.37	0.735	4.1	3.9	2.9
Manganese (PM-10)	60	60	0.0294	0.0294	0.0003	0.341	0.279	0.097
Manganese (TSP)	60	60	0.0563	0.0563	0.000237	0.302	0.173	0.171
Methyl Ethyl Ketone	27	27	1.43	1.43	0.12	2.6	2.4	2
Methyl Isobutyl Ketone	27	14	0.602	0.724	0.507	2.7	2.5	1.6
Methylene Chloride	27	26	0.474	0.479	0.243	1	0.8	0.79
n-Hexane	27	25	0.977	0.986	0.227	3	2.8	2.6
Nickel (TSP)	60	60	0.00305	0.00305	0.000127	0.0112	0.00981	0.00836
o-xylene	27	9	0.351	0.575	0.675	1.9	1.5	0.99
Propionaldehyde	30	28	0.275	0.276	0.00709	0.998	0.551	0.523
Styrene	27	2	0.0604	0.293	0.503	0.87	0.76	0
Tetrachloroethene	27	1	0.0407	0.552	1.06	1.1	0	0
Tolualdehydes	26	26	0.147	0.147	0.0141	0.487	0.344	0.231
Toluene	27	27	2.12	2.12	0.461	8.1	4.1	3.4
Trichlorofluoromethane	27	27	1.35	1.35	0.505	2	1.7	1.6
Valeraldehyde	30	28	0.109	0.111	0.00929	0.849	0.307	0.183

River Rouge (261630005) Concentrations in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ )								
Chemical Name	Num Obs	Obs > MDL	Average (ND=0)	Average (ND=MDL/2)	MDL	Max 1	Max 2	Max 3
Acetaldehyde	57	57	1.68	1.68	0.00898	3.01	2.97	2.92
Acetone	57	57	2.08	2.08	0.0121	3.75	3.47	3.4
Arsenic (TSP)	60	60	0.0014	0.0014	3.10E-05	0.00383	0.00373	0.00344
Benzaldehyde	57	55	0.125	0.126	0.0086	0.313	0.247	0.234
Cadmium (TSP)	60	60	0.000466	0.000466	2.25E-05	0.00197	0.00161	0.00148
Formaldehyde	57	57	3.22	3.22	0.00931	8.23	8.14	7.14
Hexanaldehyde	57	53	0.0771	0.0773	0.00697	0.254	0.246	0.234

River Rouge (261630005) Concentrations in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ )								
Chemical Name	Num Obs	Obs > MDL	Average (ND=0)	Average (ND=MDL/2)	MDL	Max 1	Max 2	Max 3
Manganese (PM-10)	57	57	0.0171	0.0171	0.000296	0.0709	River rou	0.0461
Manganese (TSP)	60	60	0.0537	0.0537	0.000237	0.156	0.153	0.15
Nickel (TSP)	60	60	0.00131	0.00131	0.000127	0.00357	0.00332	0.00294
Propionaldehyde	57	55	0.262	0.262	0.00475	0.622	0.504	0.504
Tolualdehydes	47	45	0.0986	0.0988	0.0131	0.319	0.241	0.231
Valeraldehyde	57	55	0.0791	0.0792	0.00705	0.229	0.197	0.194